Installation Sustainability

Support the Current Force, Empower the Future Force

COL Rick Hoefert
Director, Army Environmental Programs
OACSIM, HQDA

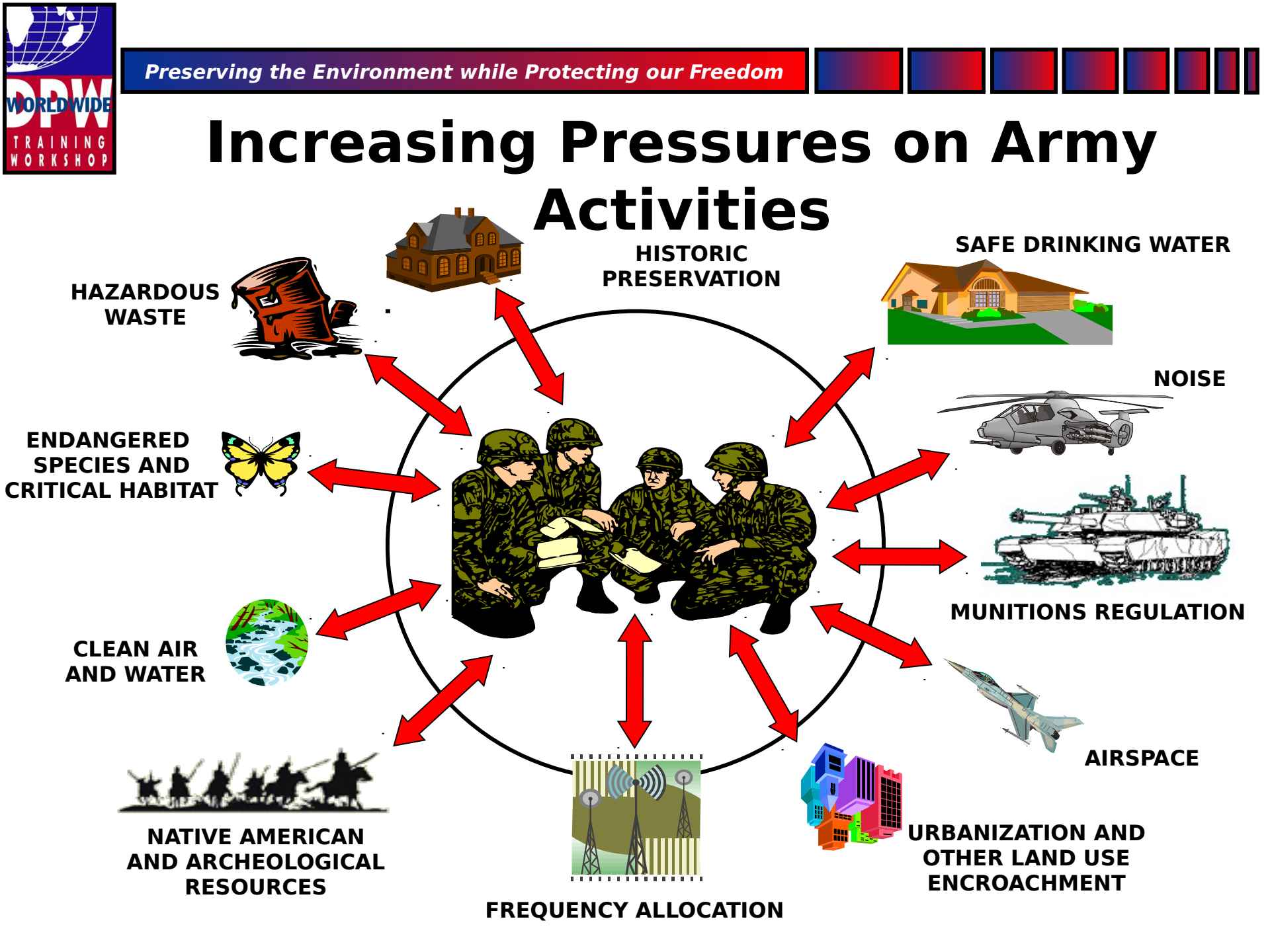
"A rapidly changing world deals ruthlessly with organizations that do not change.

We must constantly reshape ourselves to remain relevant and useful members of the joint team."

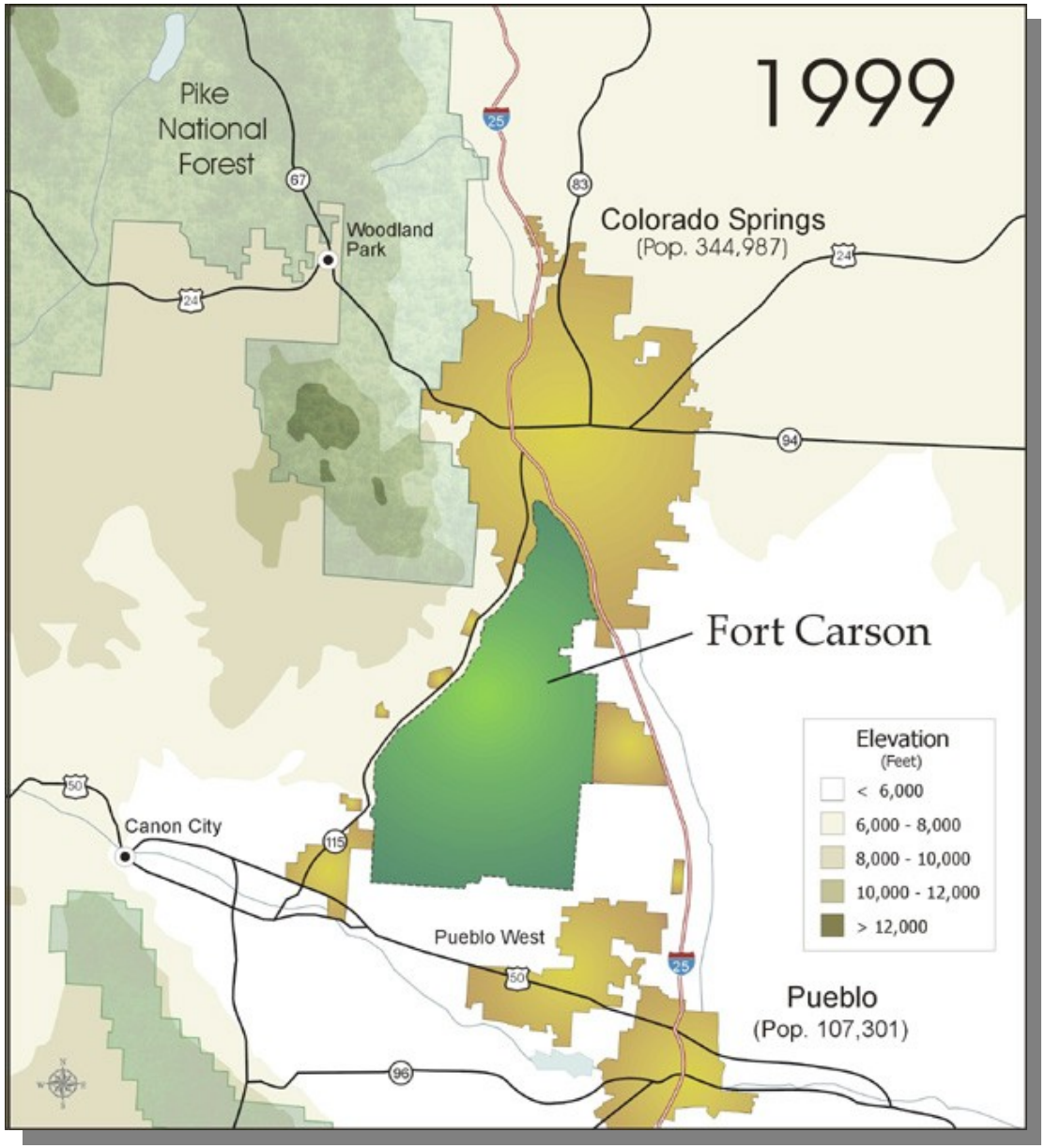
General Peter J. Schoomaker
Chief of Staff, United States Army

The United States Army...
At War and Transforming

Increasing Pressures on Army Activities



Urban Growth at Fort Carson, Colorado



The Key Question

"How do we decrease the total regional environmental footprint to ensure our installations can continue to train and deploy combat-ready troops…and that our communities have a productive future?"

MG James E. Donald
US Army Forces Command

Fort Lewis, Washington

Sustain and Enable Army Readiness

"Finding the path where both military readiness and environmental stewardship are reinforced and improved by one another is…a very narrow path; but it is the path we must take to act as responsible defenders and citizens."

Former Secretary of the Army Thomas White

Sustainable Installations employing an effective EMS widens this path

Sustainable Installations

Installation Sustainability

"Installation Sustainability moves us beyond simply solving today's problems. A sustainable Army is one that wins today's battles while laying the foundation for our future success. It connects today to tomorrow with sound business and environmental practices… Sustainability enables today's Army to empower the Future Force."

Assistant Secretary of the Army

Achieving Installation Sustainability— a Paradigm Shift

Sustainable Installations =

+ Sustainable Land Management

+ Sustainable Operations

+ Sustainable Infrastructure

Environmental Management Systems are a <u>tool</u> to achieve this Sustainability

Evolution of Environmental Management

Why Sustainability?

- **Ensures that environment will support Mission accomplishment for the long haul**
- **Proactively addresses long-range issues with mission impact** *("Pay me now or pay me later")*
- **Allows cooperative effort with community, regulators, other stakeholders on common issues** *(e.g., urban sprawl; noise; air and water pollution; energy use)*
- **Demonstrates leadership; enhances public perception of the military**
- **The right thing to do**

Sustainment vs Sustainability

Sustainment is …

"People, skills, capability, and things are maintained to the standard set for mission accomplishment by replacement, rotation, repair and training operations."

- How The Army Works, US Army War College

Installation sustainability is…

"An approach to ensure the long-term viability of the mission by minimizing resource needs, reducing environmental impacts, and managing resources so as to provide realistic training environments."

- Fort Bragg working definition

Connecting the two…

Sustaining an operation/installation sustainability happens when resources are consumed no faster than they can be replenished—in the case of natural resources, no faster than Mother Nature can replenish herself

What is "Sustainability"?

Term describing a state of community growth and development where:

Present requirements are met without compromising the ability of future generations to meet their own needs

Fort Lewis's Installation Sustainability Program

Definition developed by the World Commission on Environment and Development (the Brundtland Commission) in 1987

A Sustainable Installation…

- **Fully enables military training**
- **Protects the well-being of Soldiers and families**
- **Has a mutually-beneficial relationship with the local community**
- **Is life-cycle cost-effective to operate**
- **Systematically decreases its dependence:**
  - *on mined and fossil fuels*
  - *on non-biodegradable and toxic compounds*
- **Does not use resources faster than nature can regenerate them**

Installation Sustainability - Includes all core business processes

- **Facilities – meet platinum SPiRiT standards**
  - Energy – renewable, secure energy
  - Water – reduce use, improve quality
- **Strategic and Functional Planning – joint regional planning, planned development/growth, compatible land use, regional sustainability dialogue**
- **Transportation – convenient (reduced congestion), reliable, clean (emission-free), renewable fuels**
- **Procurement – completely cyclable non-toxic materials, no waste**
- **Military Training/Land Management – optimize use of existing training lands, create easements/buffers around fencelines, support current/future mission requirements while sustaining cultural, natural resources**

Managing the Installation

Installation Master Plan

- Real Property Master Plan
- Environmental Management System Implementation Plan
- Integrated Natural Resources Management Plan
- Integrated Cultural Resources Management Plan
- Endangered Species Management Plan
- Pollution Prevention Plan
- Sustainable Range Program
- Range Modernization Plan
- Army Alternate Procedures
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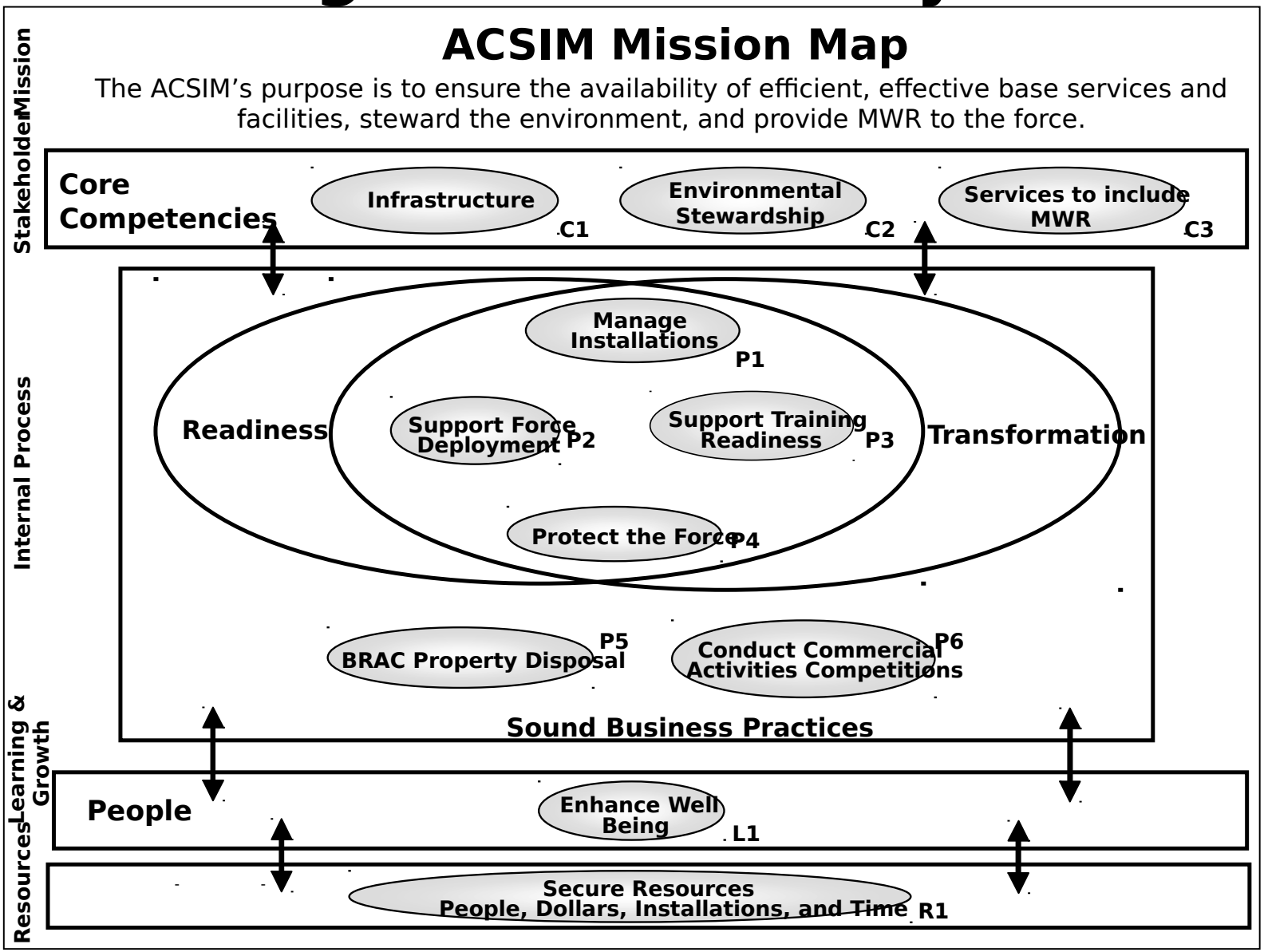
Strategic Readiness System



Build it Better: Bren Hall- University of California, Santa Barbara

- 2nd LEED Platinum Rated Building in America
- Surpasses CA Energy Code by 32-40%
- 100% demolition waste recycled, 92% of construction waste recycled
- Generates 7-10% of its own energy on-site through a PV system
- ***Cost to "go green" was less than 2% of the total building cost.***
- Construction materials were from 80%-30% recycled content, depending on the material
- Natural ventilation, energy efficient light, heating and cooling, recycled floors, air monitoring system
- Waterless urinals, low-flow water fixtures, green paints and adhesives, reflective paint on the roof

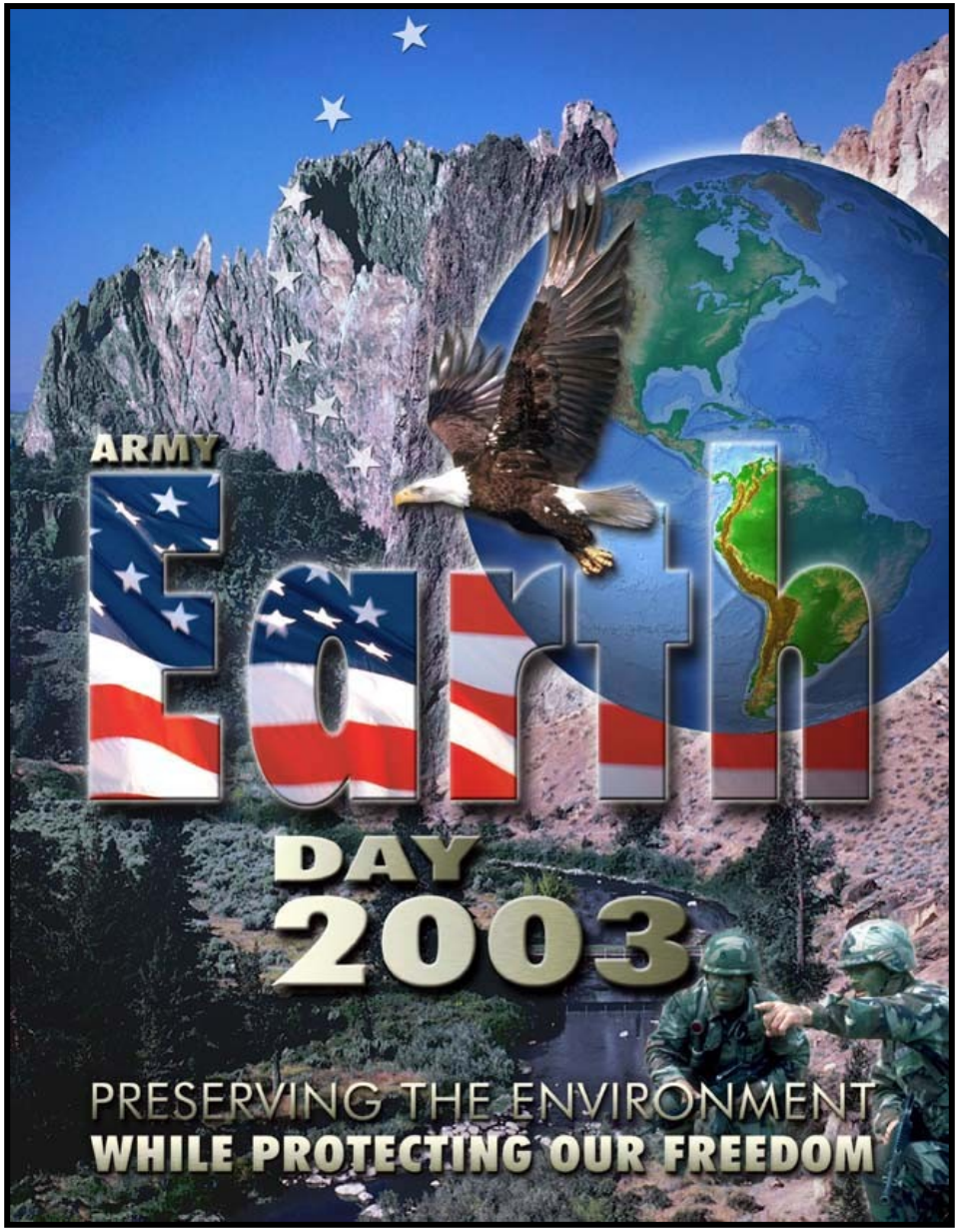
Ford Motor Company Dearborne, Michigan Plant

- Is investing an additional $8M in a green roof, porous pavement for parking lot (reduced cost), and a constructed wetland for landscaping.
- Savings will include elimination of a $40M storm water management system and $6M budgeted for landscaping.

Sustainable Installations

"No matter what the endeavor—whether defending our freedom or protecting the environment—The Army will not fail."

Chief of Staff, Army
Earth Day 2003
Message



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